PATENT COOPERATION TREATY

From (INTER		NAL SEARCHI	NG AUTHOR	ттү		W.C.
To:						PCT PCT
						RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
						(PCT Rule 43bis.1)
					Date of mailing (day/month/year)	
Applic	ant's or	ngent's file referer	nce	<u> </u>	FOR FURTHER	ACTION
04	P000	97WO				See paragraph 2 below
	-	plication No.		International filing date (day/month/year)	Priority date (day/month/year)
PC:	r/JP	2004/017	706	29.11.2004		02.12.2003
Applie				national classification an		
		gi & Co.	, Ltd.			
1.	This c	pinion contains i	ndications relat	ing to the following items	:	
	\boxtimes	Box No. 1	Basis of the	opinion		
		Box No. II	Priority	•		
		Box No. III	•	hment of aninian with rea	eard to novelty inventi	ve step and industrial applicability
	\boxtimes	Box No. IV		y of invention	and to not enty, interni	ve step and natusital appreamity
	\boxtimes	Box No. V	Reasoned sta		l(a)(i) with regard to a	novelty, inventive step or industrial
	\boxtimes	Box No. VI	Certain docu			
		Box No. VII	Certain defec	ets in the international app	lication	,
		Box No. VIII	Certain obser	rvations on the internation	al application	
2.	1611157	HER ACTION				
5 -	If a d Interna than tl	lemand for international Preliminaries one to be the	'y Examining A IPEA and the c	inthority ("IPISA") except	that this does not appli the International Bure	be considered to be a written opinion of the ly where the applicant chooses an Authority other an under Rule 66.1 <i>bis</i> (b) that written opinions of
	If this writter	opinion is, as pro reply together,	ovided above, o where appropr	considered to be a written	opinion of the IPEA.	the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form spires later
		ther options, see				•
3.	For fur	ther details, see n	iotes to Form P	CT/1SA/220.		
lame a	nd mailir	ng address of the	ISA/JP		Authorized officer	
iaccimi	la Na				m.t	ļ

WRITTEN OPINION OF THE

International application No.

INTERNATIONAL SEARCHING AUTHORITY	PCT/JP2004/017706
Box No. I Basis of this opinion	
With regard to the language, this opinion has been established on the basis of the internation filed, unless otherwise indicated under this item.	nal application in the language in which it was
This opinion has been established on the basis of a translation from the original language	ge into the following language
which is the language of a translation furnished f	for the purposes of international search (under
Rule 12.3 and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the internation invention, this opinion has been established on the basis of:	nal application and necessary to the claimed
a. type of material	
a sequence listing	
table(s) related to the sequence listing	•
b. format of material	
in written format	
in computer readable form	
c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and furnished, the required statements that the information in the subsequent or additional filed or does not go beyond the application as filed, as appropriate, were furnished.	Nor table(s) relating thereto has been filed or copies is identical to that in the application as
4. Additional comments:	
•	
-	
	•
	·

WRITTÉN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/017706

INTERNATIONAL SEARCHING AUTHORITY	PCT/JP2004/017706
Box No. IV Lack of unity of invention	
In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant l paid additional fees paid additional fees under protest not paid additional fees This Authority found that the requirement of unity of invention is not complied wit additional fees.	
3. This Authority considers that the requirement of unity of invention in accordance with Rules complied with complied with not complied with for the following reasons: The compounds stated in claim 24 are included in the factor of the present application, compounds at the 3-position of isoxazole through a group represent having -COOR 17 bound at the end through two atoms were publication 1, the compounds described in claim 20 and the compounds	formula (I) stated in claim 1. bunds having a benzene ring attending the formula for the folicly known (for example, see that the compounds described in
In view of the above: 1. The special technical feature of the subject matters of claims and 27 quoting the said claims is the compounds of [Chemical II]. The special technical feature of the subject matters of claims quoting the said claims is the compounds of [Chemical formula III]. The special technical feature of the subject matters of claims quoting the said claims is the compounds of [Chemical formula III]. The special technical feature of the subject matters of claims quoting the said claims is the compounds of [Chemical formula III]. In view of the above, since there is no technical relation involving one or more of the same or corresponding special technical considered to be so linked as to form a single general in	formula 1]. s 20 and 21 and claims 26 and 27 a 4]. ns 22 and 23 and claims 26 and 27 a 5]. nship among the inventions I-III chnical features, these inventions
4. Consequently, this opinion has been established in respect of the following parts of the intern all parts the parts relating to claims Nos.	national application:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/017706

Box	No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	1-27	YES		
		Claims		_ NO		
	Inventive step (IS)	Claims	3, 14, 20-23, 25	_ YES		
		Claims	1, 2, 4-13, 15-19, 24, 26, 27	_ NO		
	Industrial applicability (IA)	Claims	1-27	YES		
		Claims		_ NO		

Citations and explanations:

Document 1: WO, 99-11255, A1 Document 2: WO, 01-36365, A2 Document 3: WO, 02-092550, A1

I. Claims 1-19 and 24-27

(i) Claims 1, 2, 4-13, 15-19, 24, 26 and 27

The subject matters of claims 1, 2, 4-13, 15-19, 24, 26 and 27 do not appear to involve an inventive step in view of documents 1-3.

Document 1 describes the compounds represented by the general formula (I) and having peroxisome proliferator activated receptor (PPAR) agonist activity, and Examples 26-192 describe compounds having a chemical structure similar to that of the compounds of the present application. Since it is often practiced to change substituent groups for obtaining compounds most suitable or normally suitable as drugs, a person skilled in the art could have easily conceived of the compounds of the present application by changing the combination of substituent groups in the said general formula (I).

Document 2 (Example 117) and document 3 (Example 16) describe compounds having a chemical structure similar to that of the compounds of the present application. Furthermore, documents 2 and 3 also describe that the said compounds are useful for therapy of psoriasis, eczema, atopic dermatitis, etc. These diseases are included in the diseases capable of being cured by the PPAR agonist drugs of the present application (see paragraph [0132] in the specification of the present application). Since it is often practiced to change substituent groups for obtaining compounds most suitable or normally suitable as drugs, a person skilled in the art could have easily variously changed the substituent groups of the compounds described in documents 2 and 3.

(ii) Claims 3, 14 and 25

The subject matters of claims 3, 14 and 25 appear to be novel and to involve an inventive step in view of documents 1-3.

None of documents 1-3 describes or suggests that a substituent group other than hydrogen is used for substitution at the 4-position of isoxazole. Furthermore, the compounds of the present application exhibit an especially remarkable effect that PPAR transcription activity can be greatly improved if a substituent group other than hydrogen is used for substitution at the 4-position of isoxazole (paragraph [0327] in the specification of the present application), compared with the compounds not yet substituted.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/017706

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

II. Claims 20 and 21

The subject matters of claims 20 and 21 appear to be novel and to involve an inventive step in view of documents 1-3.

None of documents 1-3 describes or suggests the compounds described in claim 20 of the present application, and it is not considered to be obvious for a person skilled in the art to conceive of the said compounds.

III. Claims 22 and 23

The subject matters of claims 22 and 23 appear to be novel and to involve an inventive step in view of documents 1-3.

None of documents 1-3 describes or suggests the compounds described in claim 22 of the present application, and it is not considered to be obvious for a person skilled in the art to conceive of the said compounds.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

Certain published documents (Rule 43bis. 1 and 70.10) Application No. Publication date Filing date Priority date (valid clared Patent No. (day/month/year) (day/month/year) (day/month/year)						FC1/U	PZ004/01//00
Application No. Publication date (day/month/year) Filing date (day/month/year)	ox No. VI	Certain documents o	ited				
Non-written disclosures (Rule 436is. I and 70.9) Kind of non-written disclosure (day/month/year) Date of written disclosure (day/month/year) Date of wri	Certain p	ublished documents (Rule	43bis.1 and	70.10)			
Non-written disclosures (Rule 43 <i>bis.</i> 1 and 70.9) Date of written disclosure Caring to non-written disclosure Caring to non-written disclosure Canylmonth/year) (day/month/year)		Application No. Patent No.			Filing (day/mor	g date 1th/year)	Priority date (valid clai (day/month/year)
Eind of non-written disclosure Date of written disclosure referring to non-written disclosure (day/month/year)	US	2004/0209936 A1	[EX]	21.10.2004	06.02	.2004	17.04.2003
Eind of non-written disclosure Date of written disclosure referring to non-written disclosure (day/month/year)							
Eind of non-written disclosure Date of written disclosure referring to non-written disclosure (day/month/year)							
Eind of non-written disclosure Date of written disclosure referring to non-written disclosure (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)			-				
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)				•			
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure (day/month/year) (day/month/year) Date of written disclosure (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure (day/month/year) Date of written disclosure referring to non-written disclosure (day/month/year) (day/month/year)							
Eind of non-written disclosure Date of written disclosure referring to non-written disclosure (day/month/year)							
Kind of non-written disclosure (day/month/year) (day/month/year) (day/month/year) (day/month/year)	Non-writte	en disclosures (Rule 43 <i>bis.</i>	1 and 70.9)				
		Kind of non-written discl	osure			referring	to non-written disclosure
					•		
			·				
							•

	A 21 13			
WRITTEN OPINION OF THE	, <u>, , , , , , , , , , , , , , , , , , </u>	International application No.		
INTERNATIONAL SEARCHING AUTHORITY	18	PCT/JP2004/0177		
Supplemental Box	**	<u> </u>		
n case the space in any of the preceding boxes is not sufficient.		ing and the second of the seco		
ontinuation of: International Patent Classification (IPC)	•	Control of the second		
Int. Cl ⁷ A61P37/08, 1/04, 19/02, 1/18, 17/06, 17/04, 1	040 1500 0	5/00 05/00 05/04		
mi. C. A011-37/06, 1/04, 19/02, 1/18, 17/06, 17/04, 1	9/10, 15/00, 3.	5/00, 25/28, 25/16		
•				
	•			

Form PCT/ISA/237 (Supplemental Box) (January 2004)